

# Patent Abstracts of Japan

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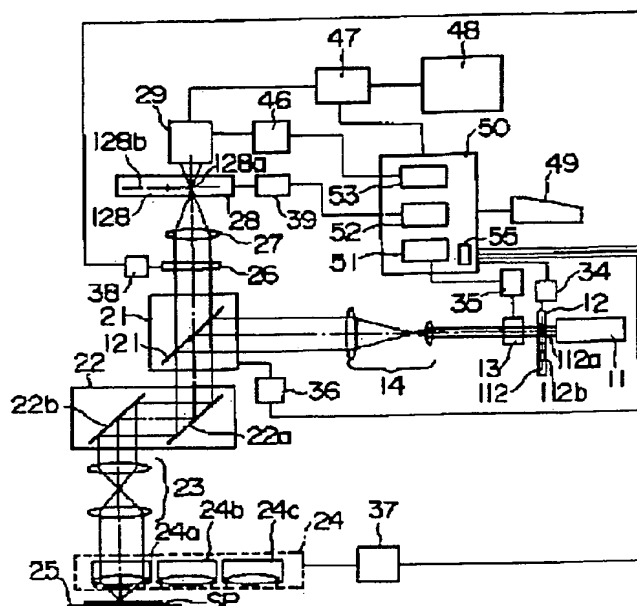
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APPLICANT : NIKON CORP;

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TITLE : CONFOCAL MICROSCOPE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a confocal microscope capable of simply setting up an image required by an observer and having high operability.

SOLUTION: A computer 50 controls driving devices 34, 36, 37, 38 to set up a wavelength selector 12, a light divider 21, an objective optical system 24, and a fluorescence selector 26 to respective device conditions corresponding to an input from an observer. Then the computer 50 automatically calculates other device conditions from these reference device conditions. Namely pin hole size capable of giving resolution to be expected as a confocal microscope is determined from the magnification and an aperture value of an inputted objective lens 24a. Then the laser power of excitation light in a condition that fluorescence is not remarkably discolored during the period of before inputted experience time. Finally the sensitivity of detection is determined so as to obtain an image of suitable luminance at the time of using already determined laser light intensity and pin hole size at the density of a coloring matter to be practically applied to an inputted or selected sample.

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